

IN THE CLAIMS

1-2. (canceled)

3. (currently amended) An isolated cDNA nucleic acid molecule ~~according to Claim 2,~~  
~~wherein said mammalian CaMK-X1 protein comprises~~ encoding the amino acid the sequence set  
 forth in SEQ ID NO:2.

4. (currently amended) An isolated nucleic acid molecule ~~according to Claim 3,~~ wherein said  
 nucleic acid comprises the nucleotide sequence of SEQ ID NO:1.

5. (canceled)

6. (currently amended) The nucleic acid of Claim ~~4~~3, further comprising a vector sequence.

7. (currently amended) The nucleic acid of Claim 6, wherein said vector comprises a  
 transcription cassette operably linked to said ~~CaMK-X1~~ cDNA sequence.

8. (original) The nucleic acid of Claim 7, wherein said vector is a plasmid.

9. (original) The nucleic acid of Claim 7, wherein said vector is a retrovirus.

10. (original) The nucleic acid of Claim 7, wherein said vector is an adenovirus.

11-15 (canceled)

Please add the following claim:

16. (new) An isolated nucleic acid molecule encoding a CaMK X1 polypeptide, wherein said  
 nucleic acid comprises a nucleotide sequence encoding a polypeptide at least 98% identical to SEQ  
 ID NO:2.